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TITLE: METHOD FOR FRACTIONATING AND PURIFYING ANTI-VIRAL ACTIVE SUBSTANCE

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ABSTRACT:

PURPOSE: To efficiently fractionate and purify an anti-viral activity substance from the aqueous extract of a cultured product obtained by culturing a shiitake (mushroom) fungus in a medium containing bagasse and rice bran.

CONSTITUTION: The aqueous extract of a cultured product obtained by culturing a shiitake fungus in a medium containing bagasse and rice bran is subjected to an ultrafiltration using a tangential type device or a hollow fiber member- using device, and the filtrate is collected. The filtrate is preferably further subjected to a hydrophobic chromatography using as a carrier a cellulosic resin having octyl or phenyl groups as functional groups to extremely efficiently fractionate or purify an antiviral substance from the aqueous solution. The preliminary filtration of the aqueous extract using a 0.1-0.45 μ m thick ultrafiltration membrane permits to greatly improve the workability of the ultrafiltration. The active ingredient adsorbed on the hydrophobic resin can be eluted with water, while unnecessitating an operation for removing a solvent except water from the elution solution.

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